RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/563,686
Source:	IFWP
Date Processed by STIC:	1-19-06

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IFWP

RAW SEQUENCE LISTING DATE: 01/19/2006
PATENT APPLICATION: US/10/563,686 TIME: 13:20:35

```
3 <110> APPLICANT: Anderson, J C
      4
              Wu, Ning
              Santoro, Stephen
      5
             Schultz, Peter G
      8 <120> TITLE OF INVENTION: COMPOSITIONS OF ORTHOGONAL LYSYL-tRNA AND AMINOACYL-tRNA
              SYNTHETASE PAIRS AND USES THEREOF
     11 <130> FILE REFERENCE: 54-000330PC
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/563,686
C--> 14 <141> CURRENT FILING DATE: 2006-01-06
     16 <160> NUMBER OF SEQ ID NOS: 37
     18 <170> SOFTWARE: PatentIn version 3.2
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     22 <212> TYPE: RNA
     23 <213> ORGANISM: Pyrococcus abyssi
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	<211> LENGTH: 77	
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	297	<220> FEATURE:	
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		gagcttttta cagcttatat tgtgggccat gccctaaggg ataaggggta tgaggttagg	180
		cacatccaca tgtgggatga ttatgataga tttaggaagg ttccaaggaa cgttccccag	240
		gaatggaaag attacctggg aatgcccatt agtgaagttc ctgatccctg gggatgccat	300
		gagagttatg ctgaacactt catgagaaag ttcgaggagg aggtagaaaa attagggatc	360
		gaagttgact ttctttatgc gagtgaactc tacaagagag gggaatattc tgaggagata	420
		aggttagcct ttgagaaaag ggataagata atggagatac taaacaagta tagggaaatt	480
		gcgaaacaac ctccccttcc agagaactgg tggcccgcaa tggtttactg ccctgagcat	540
		aggagggaag cagagatcat tgaatgggat gggggctgga aggttaagta taagtgcccc	600
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/19/2006
PATENT APPLICATION: US/10/563,686 TIME: 13:20:36

Input Set : A:\54-000330US.ST25.txt
Output Set: N:\CRF4\01192006\J563686.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; N Pos. 36,43,44 Seq#:25; N Pos. 1,2,3,4,71,72,73,74 Seq#:31; N Pos. 3749,3769 Seq#:32; N Pos. 3750,3770

Invalid <213> Response:

Seq#:33; N Pos. 3274,3294

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seg#: 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37

VERIFICATION SUMMARY

DATE: 01/19/2006 TIME: 13:20:36 PATENT APPLICATION: US/10/563,686

Input Set : A:\54-000330US.ST25.txt Output Set: N:\CRF4\01192006\J563686.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:60 L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:3720 L:1028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:3720 L:1195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:3240